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L9: Entry 5 of 6

File: USPT

Jan 27, 1998

US-PAT-NO: 5712901

DOCUMENT-IDENTIFIER: US 5712901 A

TITLE: Automatic voice/text translation of phone mail messages

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meermans; David R.	Plano	TX	N/A	N/A

US-CL-CURRENT: 379/88.14; 370/428, 379/229, 379/88.15, 379/93.01, 379/93.24

ABSTRACT:

A system for providing phone mail service for customers using either conventional voice telephones or text telephone units. The system of the present invention includes a phone mail unit for receiving a message from a caller, a switch connected to the phone mail unit for receiving the message and routing it to a translation unit for translation. The system also includes a gateway for receiving a data packet, containing call information related to the message. The data packet is routed to a console in the translation unit. A control interface is disposed between the gateway and the console. The control interface transfers the data packet from the gateway to the console. A communications assistant of the translation unit receives the message and data packet and translates the message from voice-to-text or text-to-voice. The translated message is then sent back to the customer's mailbox for storage and subsequent retrieval. The translated message may also be sent to the customer's electronic mailbox, pager and/or Internet address for retrieval.

15 Claims, 6 Drawing figures Exemplary Claim Number: 4
Number of Drawing Sheets: 6

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L10: Entry 5 of 12

File: USPT

Jan 9, 2001

US-PAT-NO: 6173250

DOCUMENT-IDENTIFIER: US 6173250 B1

TITLE: Apparatus and method for speech-text-transmit communication over data networks

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jong; Kenneth	Bridgewater	NJ	N/A	N/A

US-CL-CURRENT: 704/3; 379/88.06, 379/88.16, 704/269

ABSTRACT:

An apparatus and method for speech-text-transmit communication over data networks includes speech recognition devices and text to speech conversion devices that translate speech signals input to the terminal into text and text data received from a data network into speech output signals. The speech input signals are translated into text based on phonemes obtained from a spectral analysis of the speech input signals. The text data is transmitted to a receiving party over the data network as a plurality of text data packets such that a continuous stream of text data is obtained. The receiving party's terminal receives the text data and may immediately display the text data and/or translate it into speech output signals using the text to speech conversion device. The text to speech conversion device uses speech pattern data stored in a speech pattern database for synthesizing a human voice for playing of the speech output signals using a speech output device.

20 Claims, 9 Drawing figures Exemplary Claim Number: 1

Number of Drawing Sheets: 7